

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Hassan Tanbakuchi

Serial No.:

Examiner:

Filing Date: Herewith

Group Art Unit:

Title: LOW-PASS FILTER TRANSMISSION LINE WITH INTEGRAL ELECTROABSORPTION  
MODULATOR

COMMISSIONER FOR PATENTS  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 processing fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

☐ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (\*) were disclosed in Patent Application No. \_\_\_\_\_ filed \_\_\_\_\_, now U. S. Patent No. \_\_\_\_\_, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

"Express Mail" label no. **ET649780263US**

Date of Deposit **Aug. 18, 2003**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

By   
Typed Name: **Edouard Garcia**

Respectfully submitted,

**Hassan Tanbakuchi**

By   
**Edouard Garcia**

Attorney/Agent for Applicant(s)  
Reg. No. **38,461**

Date: **Aug. 18, 2003**

Telephone No.: **(650) 631-6591**

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	<b>10020832-1</b>	
	APPLICANT <b>Hassan Tanbakuchi</b>	
	FILING DATE	GROUP
	<b>Herewith</b>	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		6,392,781	May 21, 2002	Kim et al.
		5,854,862	Dec. 29, 1998	Skeie
		5,729,378	Mar. 17, 1998	Tanaka et al.
		5,696,855	Dec. 9, 1997	Skeie
		5,675,673	Oct. 7, 1997	Skeie
		5,671,302	Sep. 23, 1997	Skeie
		5,546,218	Aug. 13, 1996	Komatsubara et al.
		5,291,565	Mar. 1, 1994	Schaffner et al.
		5,208,697	May 4, 1993	Schaffner et al.

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
		WO 01/06286	Jan. 25, 2001	White et al.		

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	R. Lewen et al., "Ultra high-speed segmented traveling-wave electroabsorption modulators," OFC 2003, post deadline paper PD38, March 2003.
	T.R. Ranganath, "40 Gb/s Components," OFC 2002, pp. 336-338 (March 2002).
	Hsu-Feng Chou et al., "40 Ghz Optical pulse generation using traveling-wave electroabsorption modulator," OFC 2002, pp. 338-339 (March 2002).

EXAMINER	DATE CONSIDERED
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\* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

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## FOREIGN PATENT DOCUMENTS

	*	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	A. Shen et al., "Low insertion loss and polarization-insensitive InP-based Mach-Zehnder modulator for 40 Gbit/s optical regeneration," OFC 2002, pp. 339-340 (March 2002).
	Hao Feng et al., "40 Gb/s Electro-absorption-modulator-integrated DFB laser with Optimized design," OFC 2002, pp. 340-341 (March 2002).

EXAMINER

DATE CONSIDERED

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